TCF 2011

Roger Amidon (K2SMN), DX Computer Company

Title: What's New in Video Games for 2011 - 3D!

Saturday Room SSB 131, 1:30 pm to 2:25 pm

Abstract: The latest technology being used by Video Game Developers, including Microsoft's Xbox "Kinect" technology, Sony's Playstation "Move" system, and Nintendo's new "3DS" handheld console will be presented.

Bio: Roger has been involved with video game technology since 1990. He is also one of the pioneers of the personal computer revolution, including the idea of having a "Computer Fest", which evolved into the first Trenton Computer Festival.

Alan Andrea (W2ATA), AT Andrea Technologies

Title: Introduction to CUDA and its applications

Saturday Room SSB 102, 11:20 am to 12:15 pm

Abstract: This talk will focus on NVIDIA'S CUDA framework and provide an introduction to developing massively parallel applications written in C that run on a GPU device. Furthermore, I will discuss the Mathematica CUDA interface feature built into Mathematica that allows you to easily tap into the power of CUDA using the latest version of Mathematica.

Bio: I am a professional programmer with over 20 years experience in the IT industry. I am currently employed by Barclays where I develop applications for the financial industry.

Mike Barlow, ManTech Sensor Technologies International

Title: RESTful Web Service - What is it

Saturday Room SSB 230, 10:15 am to 11:10 am

Abstract: Web Services and SOA seem to be all the rage these days, and if you've looked into them most of the articles and books talk about WSDL files and SOAP and fairly complex architectures. But that's NOT the only way of doing Web Services. There's also "REST" based Web Services. REST is an easier, faster, and more efficient method of doing Web Services than the more traditional methods. As a matter of fact, Amazon.Com,

which provides a REST interface as well as SOAP interface to their Web Service, reports that they handle 85% MORE hits via REST than SOAP and REST is 6 times faster! So, come and get the scoop on just what REST is and how Web Applications can be architected using this process for a faster, more efficient solution than traditional Web Applications. This will be a high level overview of how these types of services can be used with virtually any type of back end application system.

Bio: Mike has been involved in the computer industry since practically the start of personal computing. Mike has been working with the Notes/Domino platform since 1991 and has lectured at many computer conferences nationwide. In recent years Mike has concentrated on more web-based applications including the use of AJAX and JSON and RESTful based Web Services. Most recently Mike has been involved in network certification and accreditation and Web Application Accessibility.

Title: Web Application Development - Workshop

Saturday Room SSB 230, 12:25 pm to 2:25 pm

Abstract: In recent years the World Wide Web has become so ubiquitous that most of us think nothing of it. To many a Web application is a term which has little or no meaning, to others it's something done by the computer Gods in their dark, dank dungeons. In many organizations Web Applications are the life blood of how they work. Companies like Facebook, Twitter, Amazon and Google wouldn't even exist without their suite of Web Applications. Using simple and freely available tools (such as PHP and MySQL as well as some HTML and Javascript), Mike will take you on a brief walk in one of those dungeons and build a simple Web Application, which will demonstrate such principles as Authentication, Authorization and a Document Repository.

Bio – see above

Paul Bergsman (N3PSO), Author and Independent Consultant

Title: Controlling the World with PIC Microcontrollers

Saturday Room SSB 225, 11:20 am to 12:15 pm
Sunday Room SSB 102, 11:20 am to 12:15 pm

Abstract: Each year, MicroChip Corp. produces over half a billion embedded controllers, called PICs. The company is very aggressive in the scope of products manufactured, and support documentation. This presentation will focus on MicroChip’s Mid-Range Pics. They are rather inexpensive, and easy to program. All the required support products, accept the $35.00 programmer, is free from MicroChip. The presenter will demonstrate how to program a PIC, how to use the large and diverse device application notes.

Bio: Robert Paul Bergsman is a retired Public School Teacher. For many years he led the Engineering SIG, (Special Interest Group), at PACS, (the Philadelphia Area Computer Society). He is the author of “Controlling the World with Your PC”, which was in print for over 14 years! Mr. Bergsman’s second book, dealing with embedded controllers, is about two thirds complete. And, he currently designs circuit boards for educational uses.

Title: Making your Printed Circuit Boards

Saturday Room SSB 225, 3:40 pm to 4:35 pm
Sunday Room SSB 225, 2:35 pm to 3:30 pm
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Abstract: The presenter will show you how to produce your own single and double sided printed circuit boards. The people have had mixed results using plastic film transfer process, (especially thin traces), far better and more consistent results are obtained using a laser jet printer and plane copy paper. Mr. Bergsman will detail all the necessary steps and provide information of venders that supply free, “non-crippled” software for creating the needed artwork on your PC.

Bio: See above

Brian Boccardi (N2MPM), FUBAR labs

Title: Automatic Packet Reporting System

Sunday Room SSB 225, 11:20 am to 12:15 pm

Abstract: APRS The Basics. An intro to APRS Automatic Packet Reporting System. Basic setup and use of APRS for the ham radio operator.

Bio: Brian Boccardi has presented at TCF for many years and holds the amateur radio callsign N2MPM. He works with the NJ state office of emergency management and with other agencies to promote APRS use in New Jersey and is active in many radio clubs.

Robert E Bruninga (WB4APR), US Naval Academy

Title: Solar Power Now

Saturday Room SSB 228, 12:25 pm to 2:25 pm

Abstract:

Bio:

Barry Burd, Drew University

Title: Developing Applications for Android Phones and Tablets

Saturday Room SSB 131, 3:40 pm to 4:35 pm
Sunday Room SSB 129, 12:25 pm to 1:20 pm

Abstract: See the Android app development process from beginning to end. Learn the basics steps for coding an app, preparing an app for publication on the Android market, and deploying the app on the market.

Bio: Barry Burd is a professor of Mathematics and Computer Science at Drew University in Madison, NJ. He is the author of several articles and books, including Java For Dummies from Wiley Publishing, Inc. and is currently writing "Android Application Development All-in-One For Dummies" for publication later this year by Wiley. He received an M.S. degree in Computer Science at Rutgers University and a Ph.D. in Mathematics at the University of Illinois.

Robert Buus (W2OD), Bell Labs (retired)

Title: The Forefathers of Radio

Sunday Room AR 223 10:15 am to 11:10 am

Abstract: Who invented radio? It turns out that it is the result of several incremental discoveries made by many people over a 150 year time interval. This is a review of the contributions of these forefathers starting with Ben Franklin and continuing until the beginning of the 20th century. Most of these discoveries sprung from insights provided by earlier experimenters so there is a sequential thread of logic as the field of electro-technology evolved. Many of these forefathers are honored today by having an electrical unit named after them (volt, ampere, ohm, oersted, farad, henry, maxwell, hertz, tesla, etc.).

Bio: First licensed in 1953 and Extra Class since 1955, Bob Buus now holds the amateur call W2OD. He obtained his First Class Radiotelephone and Second Class Radiotelegraph licenses in 1954 while still in high school and went on to college earning a BSEE from the University of North Dakota in 1959 followed by an MEE from New York University in 1961. He was employed at Bell Labs until 1989 when he retired to devote more time to amateur radio.

Neil Cherry, Author/AT&T Research Lab

Title: Home Automation Demonstration

Saturday Room SSB 225, 12:25 pm to 1:20 pm

Abstract: A demonstration and discussion of Computer controlled home automation technology using a doll house as the home. Included will be actual and simulated usage of common home automation tasks using Misterhouse with Linux on a Sheeva Plug computer (a computer that only needs 4 watts of power).

Bio: Neil Cherry is the author of Wiley's "Linux Smart Homes for Dummies". He has been working with computers, computer electronics, and software since 1978; has been playing with X10 since 1982; began automating his home in 1992 when a friend gave him an X10 computer interface. Neil started the Linux Home Automation web site (http://www.linuxha.com) in 1996. When he is not riding his bicycle or playing with home automation, he works for AT&T Research Lab as a Test Engineer.

Sal Ciappetta, (N2LSA), USCGAUX Manasquan Inlet

Title: Marine Radio - US Coast Guard Auxiliary Rescue 21 Communication System

Saturday Room SSB 228, 10:15 am to 11:10 am

Abstract: The Coast Guard Rescue 21 Communication System is used to help and protect the boating community. Coast Guard stations are linked together with Rescue 21 to provide a cohesive system monitoring emergency maritime frequencies. Rescue 21 also monitors Coast Guard frequencies while assets are underway responding to search and rescue missions. Communication between Coast Guard stations are also maintained through the Rescue 21 system. A brief explanation will be given on how this system works and is implemented.

Bio: Sal Ciappetta is retired from the medical electronics field, where he was involved with installing and maintaining medical imaging equipment. He has been a ham operator since 1991 and holds an advanced class license. He has been a Watchstander at the Coast Guard Station Manasquan Inlet for the past two years.

Joe Cupano (NE2Z), Orange County Amateur Radio Club

Title: CyberSecurity for the Home

Saturday Room SSB 105, 1:30 pm to 2:25 pm

Abstract: This session provides information on cybersecurity for the home presented in plain language using low cost tools. Session topics will include: Brief history of computer mischief and how did it get so bad; You know more than you think; Protecting your computer and home network; Managing your online identity; What you type may haunt you; and Emerging threats to the home user in 2011.

Bio: Joe Cupano has been an Information Security professional for fifteen years working in the Global 100 and Federal marketplaces as well as published author and speaker. Joe holds an Amateur Radio license (NE2Z) and is currently the Vice President of the Orange County Amateur Radio Club in Orange County, New York.

Jeremy dePrisco (KA3OKK), Mindspeak.com/Shivasongster.com

Title: Workshop on Making Music in Second Life: SL and the 21st Century Musician

Saturday Room SSB 130, 12:25 pm to 1:15 pm

Abstract: This workshop presents an overview of the technical challenges musicians face when working in Second Life (SL), an online virtual realm created by Linden Labs. Based on ethnographic experience within SL as a performer and listener since 2006, Jeremy outlines some techniques and ideas for making the audio experience better for both performer and audience. PC/Mac audio configuration will be discussed with the hope that attendees will save themselves time and effort in their own SL experience. The workshop will include live interaction with the SL environment via Muse of Fire, a venue hosted by Phorkyad Acropolis, one of Jeremy's primary collaborators.

Bio: Jeremy dePrisco writes and produces music/sound for album projects, theatre and digital media. With over 15 years of work in music and production, dePrisco has produced six solo albums since 1999, and has done either composition or sound design for 22 theater productions. dePrisco is a senior web applications software designer with Geisinger Health System. dePrisco holds an AS in Business Administration (The Pennsylvania State University) and a BA in Comm Studies (Bloomsburg University).

Susan Dykas, eBernie, Inc. - Computer & I.T. Consulting + Web Design

Title: Social Media - Learn Key Tools to Connect w/Friends, Family & Others

Saturday Room SSB 130, 1:30 pm to 2:25 pm

Abstract: In the U.S. the active unique social network audience grew roughly 29% from 115 million in February 2009 to 149 million in February 2010 (Source: Nielsen). Social media is on the rise and Facebook is leading the pack - with others that include Twitter, YouTube, MySpace, MeetUp and LinkedIn. Social Media is a great way to communicate with family, friends, and colleagues around the world - but how does it all work? This presentation will cover the highlights of how to use social media for fun. We will discuss how to: Setup your profile using your email address, Find and Connect with people, Protect yourself with privacy settings load and tag photos, attach articles, videos, links to your profile, Comment on your profile/comment and/or on others' profiles/comments and much more!

Bio: As the lead on Marketing Services & Client Relations for eBernie, Inc., Susan Dykas advises businesses on marketing best practices. Services include: strategic planning, brand management, Website design, social media, direct mail, public relations, event planning, CRM/database and project management. Susan received a Bachelor's degree from Temple University's Fox School of Business. Memberships: Philadelphia Chapter of American Marketing Association and is Vice President, Communications; and Philadelphia Area Computer Society Users Group Instructor for Social Media class.

Douglas Ferguson (KB2JMG), ACGNJ

Title: Lego Mindstorms demo

Saturday Room SSB 105, 12:25 pm to 1:20 pm

Abstract: LEGO Mindstorms is a robotics platform based on the well known LEGO building sets. Doug will present an introduction to using the set and a demonstration of LEGO Mindstorms using the included software and the Microsoft Robotics Studio.

Bio: Doug Ferguson is a computer hobbyist who loves learning about new technologies. Having taught himself to program in high school, he continues to explore numerous areas of computers including video editing, web design, visualization, and robotics. In the real world Doug is employed by EMC where he is a Sr. Support Engineer for the Ionix IT operations software product.

Norm Fusaro (W3IZ), ARRL

Title: Logbook of The World

Saturday Room SSB 228, 3:40 pm to 4:35 pm

Abstract: Norm will give a live demonstration of ARRL's Logbook of The World, and discuss how to use the many features of LoTW to collect QSO credit and earn awards. He will show users how to set up a Logbook of The World account, manage the QSO data in an account, apply for awards and answer any specific questions from the audience.

Bio: Norm Fusaro, W3IZ is the Assistant Manager of the Member & Volunteer Programs department at ARRL HQ in Newington, CT. He has a variety of responsibilities including but certainly not limited to ARRL affiliated clubs, mentoring and Logbook of The World. Norm is an Amateur Extra class Radio Amateur and has been licensed for more than 25 years. He is active in his local club and enjoys chasing DX, contesting, portable operating and mentoring new hams.

Robert Gezelter, Robert Gezelter Software Consultant

Title: Preserving Privacy with Virtual Machines

Saturday Room SSB 102, 12:25 pm to 1:20 pm
Sunday Room SSB 102, 1:30 pm to 2:25 pm

Abstract: Web tracking is the latest high profile privacy threat. Simply put, many www sites leave cookies and similar data tags behind when one visits the site. When other sites are re-visited, the information from the different sites can be correlated, creating a privacy hazard. Also, various sites may require the installation of ActiveX controls, or may have been compromised, and may attempt to install malware. Disposable virtual machines are not difficult to create, and provide the ability to use a virgin system for each web session, limiting the damage. This session will demonstrate how to achieve this level of safety.

Bio: Robert Gezelter is a Senior Member of IEEE and an alumnus of the IEEE Computer Society's Distinguished Visitors Program. He holds BA and MS degrees in Computer Science from New York University, and is a Contributing Editor of the Computer Security Handbook, 5th Edition. He has spoken and written extensively on operating systems, networks, performance, security, tools, and similar areas. Robert Gezelter is in private practice and maintains his offices in Flushing, New York. He can be contacted via his firm's www site at "http://www.rlgsc.com".

Title: Cyber Hospitality in Safety: Protecting against Shared Broadband Contagion [How to Have Both WiFi Security and Hospitality]

Saturday Room SSB 102, 10:15 am to 11:10 am
Sunday Room SSB 102, 2:35 pm to 3:30 pm

Abstract: Many, if not most homes have now become defacto Wi-Fi "hot spots". The challenge is protecting resident devices and their data, while simultaneously allowing transient devices ("friends and family") unfettered access to the Internet. This is particularly a challenge with digitally-equipped youngsters. Fortunately, proper Wi-Fi and network configuration allows creation of an environment that allows visitors unfettered Internet access, while simultaneously protecting permanent devices from damage, from network attacks within the firewall.

Bio: See above.

Ron Graham, Clarity Strategic

Title: Secrets of the Attention Drive

Saturday Room SSB 130, 3:40 pm to 4:35 pm

Sunday Room SSB 131, 1:30 pm to 2:25 pm

Abstract: An attention drive happens when a group of like-minded social media users exploit platforms such as Facebook, Twitter, YouTube, etc. to their full ability to promote a cause. The cause should generally be something a general audience can get behind, but it does not necessarily have to be philanthropic in nature. Your cause can be a problem users face - a problem solved by your own products and services - provided you're not offering just a sales pitch. Ron will examine the development of an attention drive, using the 24-Hour Bully Stake-Out as an example. Facebook, Twitter and YouTube roles will be discussed, and suggestions for future development will be offered.

Bio: After 13 years in the aerospace world, two in robotics, and well over five in education, Dr. Ron Graham found he had the entrepreneurship bug, and decided never to be happy again unless he was working alongside start-ups, helping them and guiding them to early-stage growth. To bring this dream to reality, he now owns Clarity Strategic, based in the Akron, OH area, and offering social media presence, marketing, and integration with company Web site; documentation of products, services, and processes; development of e-books and other media for sale or public relations; prototyping of new products and services; and development of staff, especially new employees.

Herman Hinitz, H. Hinitz Photography

Title: Getting Started with Microcomputers, the Internet, and Digital Photography

Saturday Room SSB 105, 10:15 am to 11:10 am

Abstract: This session is designed for people who would like to use a personal computer for word processing, electronic spreadsheets, graphics, internet portals (browsers), databases, antivirus programs, firewall programs, digital photography, etc., but are unfamiliar with how or where to begin. Associated with the talk will be an exhibit of photographs showing examples of the effects that can be obtained with digital cameras by utilizing appropriate computer programs. Some of these effects can also be achieved with the built-in software present in many digital cameras.

Bio: Herman Hinitz has used diversified software and hardware in research, consulting, publications, and digital photography. Some of his work has been included in books and publications. He is a long time supporter of the Trenton Computer Festival.

Donald Hsu, Dominican College

Title: Project Management

Saturday Room SSB 102, 3:40 pm to 4:35 pm

Abstract: Dice.com lists 5,000 project related openings daily! Project managers cut across major functional areas (accounting, human resource, marketing, and operation). They get jobs in construction, education, finance, healthcare, government, information technology, and manufacturing, just to name a few. Anyone can get into this profession. Salary level starts about $85,000 with or without PMI certification! Topics to be covered in this talk are: CPM, GANTT, PERT, SOW, WBS, budget variances, condition of satisfaction, effective business communication, planning strategy, project overview statement, project team members, scope creep, the use of the MS Project software, import/export files to Excel, and creating a master plan on the project server. Speaker will demonstrate real-life projects using MS Project 2010. Bring a friend to learn more!

Bio: Donald Hsu is a professor at Dominican College and President of the Chinese American Scholars Association. He has taught 70 subjects from Accounting to Unix, and worked for 31 firms with 9100+ clients/students. His students are working at Fortune 1000 firms, including AT&T, IBM, JPMorganChase, Microsoft and Verizon. He has run nine CASA E-Leader conferences successfully in Asia and Europe since 2006 - see "http://www.g-casa.com".

Title: Internet Job$$$

Saturday Room SSB 102, 1:30 pm to 2:25 pm

Abstract: Facebook, Twitter, Mobile Internet, and stock is way up. Yes, the economy is coming back slowly. Retires are finding jobs! Eighty percent of people have jobs from Internet. Accounting needs 2.1 million by 2019 (Sarbanes Oxley, forensics, QuickBooks, PeachTree, MS Dynamics, small business accounting); application developers (C++, Java, C#) - thousands of jobs, but no applicants; database (MySql, MS Sql server, Oracle 11g, SAP, Sybase, Data Warehouse), starting at $80,000; networking (Cisco, Info Security, A+, Network+); systems (Unix, Linux, Vista, Window 7); business intelligence (Project Manager, Global Finance, sales/marketing of tech product/service). Computer majors are down 50 to 80% in US universities. This means more jobs for you and me. Bring a resume and get a free critique from the speaker.

Bio: See above.

Title: C# .NET Programming

Sunday Room SSB 131, 10:15 am to 11:10 am

Abstract: With outsourcing and downsizing, you may think that there are no programming jobs, but in fact the opposite is true! From financial computing, web design, iPhone apps to gaming, Java has been the programming language of choice. Four million Java programmers did applications for cell phones, PDAs, web servers and databases. Since 2004, C# (C sharp) is quickly gaining momentum as a preferred language. Dice.com lists 2457 jobs for Java, and 1061 jobs for C# (up from 820 last

year)! Salary ranged $75,000 to $120,000. C# .NET Programming will be discussed and "hands-on" exercises demonstrated. Show up and learn!

Bio: See above.

Sophie Idromenos, The Newgrange School

Title: Workshop on Video Game Design with Scratch

Saturday Room SSB 131, 10:15 am to 12:15 pm

Abstract: Engage your students by allowing them to create games and more using the free cross platform application called Scratch. Additionally, learn how to use this tool to design educational games. Moreover, see how Scratch promotes collaboration by sharing, downloading, and remixing other usersâ€™ code then posting the revision to the Scratch gallery. Participants are encouraged to download the software and signup for a Scratch account (http://scratch.mit.edu/signup) so they may follow along as we build a simple game. Overall, this workshop will provide an overview of the software, basic programming concepts, and resources for future lessons.

Bio: I have a Bachelor's in Art and a Masters in Computer Science both with a specialization in Computer Graphics. Originally, an Art Teacher, I sought more from my profession. Thereafter, I became a Technology Educator, not without additional effort, of course. However, my knowledge is not limited to academia, as a teaching/research assistant and instructional technologist, but it extends to the "real-world", specifically the IT field, where I worked as a graphic/web designer/developer.

Joe Jesson (KC2VGL), XACT Technology, LLC

Title: The New "Internet of Things"

Sunday Room SSB 129, 10:15 am to 11:10 am

Abstract: As the cellphone industry is becoming saturated with just personal calls, an entirely new business of assets communicating is heating-up.... billions of assets communicating wirelessly. This is known as Machine-to-Machine communication and expectations of billions of assets communicating wirelessly. Today, we are seeing ocean-going ships communicating wirelessly to each other (AIS), Airplanes (ACARS), Trains (RFID), Trailers, Autos, and soon containers and every type of assets. Joe will give stunning visual earth demos showing how airplanes communicate wirelessly, ships, trains, trailers and autos also. The first open, flexible wireless & GPS M2M Xact Technology platform will also be demonstrated. This highly-integrated platform is limited only by your imagination and will save you a year in getting your new product to market!

Bio: Joe Jesson is currently CTO of XACT Technology and in a previous role, founder and CTO of a GE Telematics Business Unit, BP-Amoco Research, and Motorola in Illinois. He is a regular speaker at the International Telematics Update Conferences, TCF, etc. and been an ACM and IEEE member for almost 30 years. Joe has graduate degrees from DePaul University and a MTS at the University of Chicago (1972).

Evan Koblentz, Mid-Atlantic Retro Computing Hobbyists (MARCH)

Title: Vintage computer collecting for beginners

Sunday Room SSB 129, 1:30 pm to 2:25 pm

Abstract: This lecture will explain the landscape of the vintage computing hobby, how to get involved and resources for finding information. "Vintage" for our hobby generally means anything from the mid-1940s to mid-1980s. People collect everything -- micros, portables, homebrews, minis, even mainframes! And don't forget the software, manuals, books, t-shirts and accessories. But unlike collecting art, furniture or stamps, vintage computers need to be restored and used, or else their circuits become bad -- or at least decrepit. Come to this lecture to learn all about the hobby and how you can get involved.

Bio: Evan Koblentz is a computer historian and an officer of the MARCH, which is a non-profit user group for collectors and restorers of vintage computers.

Eva Kaplan, Computers + Kids Camp/Pennington Computer School

Title: Best Websites, Search Engines, and Software 2011

Saturday Room SSB 105, 11:20 am to 12:15 pm
Sunday Room SSB 131, 11:20 am to 12:15 pm

Abstract: Best Websites for 2011, out of the ordinary Search Engines, Online Database Resources, Free Downloads of Cool Software , as well as Internet Know-How Tips make this seminar a must attend. Eva’s extensive experience with the “Information Highway,” has gained her the respect as TCF’s guru of the field year after year. Handouts will be given.

Bio: A speaker since TCF's inception in 1976, Eva Kaplan's Computers + Kids Summer Camp continues to receive accolades. Started in 1982, it offers exciting and enriching computer, engineering, and technology experiences to Princeton area youth. Eva initiated numerous computer courses for adults and children at MCCC. She's listed in Who's Who in Science and Engineering and in Who's Who in U.S. Executives. Eva has been a long time judge for the Elementary Division of The Mercer Science and Engineering Fair and has mentored student projects for Future City Philadelphia in conjunction with Engineers Week. Email “evalkaplan@cs.com” for additional information.

Allen Katz (K2UYH), The College of New Jersey

Title: Getting Started on Moonbounce (with a focus on 432 and 1296 MHz)

Sunday Room SSB 223, 11:20 am to 12:15 pm

Abstract: This talk will discuss moonbounce, also known as EME for Earth-Moon-Earth communication. It will cover some of the history of this form of propagation, the technical obstacles to success, and their solutions. It will also present the components (antenna, transmitter and receiver) of an EME station, and provide everything you need know to make EME contacts with a relatively small station (100 watts and a single yagi). The focus of the talk will be on the 432 and 1296 MHz bands, but the information will also be useful for EME operation on other amateur bands.

Bio: Al (K2UYH) has been a licensed radio amateur since he was a teenager with an interest primarily in the UHF/microwave frequencies and Moonbounce. He completed the first WAC above 144 MHz in 1976, the second WAS and more recently the third DXCC on 432 MHz. He has been editor/publisher of the â€œ432 and Up EME Newsletter for more than 35 years, before that he edited the VHF column for CQ magazine. He is a professor of Electrical/Computer Engineering at The College of New Jersey. He has received the ARRL Technical Merit Award, the ASEE's Western Electric Fund Outstanding Engineering Educator Award, the CSVHF Societyâ€™s John Chambers Award, an IEEE Centennial Medal, and numerous other awards including the William Randolph Lovelace II Award for outstanding contributions to space science and technology from the American Astronautical Society. He is a Fellow of IEEE and a past Distinguished Lecturer for the MicroÂ¬wave Theory and Techniques (MTT) Society of the IEEE.

Mark Kempisty (AA3K), Frankford Radio Club

Title: Contesting 101

Sunday Room SSB 225, 10:15 am to 11:10 am

Abstract: Amateur radio contesting can be done by all levels of amateur radio stations from the largest with multiple beam antennas to the smallest with a vertical or dipole. This talk is an introduction to amateur radio contesting for those interesting in getting involved. Information about radios, antennas and computer logging software along with operating tips will be presented.

Bio: Mark Kempisty - AA3K is an extra class amateur radio operator who has been licensed for over 25 years. He is currently secretary of the Frankford Radio Club and participates in a number of contests during each contest season from a modest station.

Nick Korn, Oleetku Studios

Title: Freeware Gaming

Saturday Room SSB 131, 12:25 pm to 1:20 pm

Abstract: The internet as we know it is a hotbed for idea development in every field. The Gaming field is a very natural field among them. In this talk, a number of games will be spoken about and analyzed from two perspectives: their importance in the development of the gaming industry, and their ability to entertain the gaming audience. Most importantly, all of the games spoken about will be freeware games, meaning that attendees will be able to play every game they hear about right away!

Bio: Nick is a fourth year student of Game Development at Rensselaer Polytechnic Institute. He created Oleetku Studios over 7 years ago as an online showcase for his comic and illustration work. Since then it has developed into a place where many creative minded people exhibit their works. A major features of the Oleetku website is the Oleetku Studios Podcast, on which Nick and a number of co-hosts and special guests review and discuss free games.

Robert Korn, Pratt Institute

Title: Data Logging Projects for the PIC Microcontroller

Saturday Room SSB 225, 1:30 pm to 2:25 pm

Abstract: Pic Micro controllers are embedded in everything from computer mice to sprinkler systems. During this session you will hear tips on interfacing the pic micro to analog and digital inputs as well as high power DC and AC loads. Real time loggers that have been used in an electric vehicle project will be demonstrated. Everything from Serial output to Web based display will be shown. A CD will be available and the CD's content will be available on the WEB in case you miss it. The CD contains sample code, hex files, and a live Linux system with http server. Come and see what is possible with these little wonders.

Bio: Robert Korn is the Director of Enterprise Operations and Infrastructure at Pratt Institute and the proprietor of Open Valley Consulting Corporation. He is a major proponent of Open Source, who has designed many hardware projects on everything from a mainframe to a microchip. He wrote his first programs on a Unix system over 35 years ago and still enjoys programming today.

Rich Krohn (N2SMV), ARRL NNJ Section Manager

Title: Winlink 2000, Packet and NTSD

Sunday Room SSB 225, 2:35 pm to 3:30 pm

Abstract: Using RMS Express and/or Airmail on Winlink 2000
NTS traffic on Winlink 2000 or packet Emergency Communications with Winlink 2000

Bio: ARRL NNJ Section Manager

Cass Lewart, Freelance writer

Title: GPS Secrets

Saturday Room SSB 225, 10:15 am to 11:10 am

Abstract: There is more to a GPS than a pleasant voice telling you to turn right on Cedar Street, and showing a color display of adjacent ramps and intersections. In my presentation I will talk about the technical implementation of the current GPS systems, how the user location is derived from precise atomic clocks on satellites and a non-precise clock in your GPS receiver, how to capture and send data to your GPS, and how to modify its built in vocabulary. I will also discuss privacy issues, secret keys, use of a GPS for hiking and Geocaching and much more.

Bio: Cass Lewart is an electrical engineer, a long time hobbyist, author of several books on computer programming, modems and programmable calculators. He also has written many electronic project articles in popular electronics magazines. He and his wife, Ruth, are joint recipients of the 2005 Computer Hobbyist of the Year award from the Amateur Computer Group of New Jersey. They are also former presidents of the Brookdale Computer Users Group.

Dave Marra, Apple, Inc.

Title: Discover iPad - A magical and revolutionary product at an unbelievable price.

Saturday Room SSB 103, 10:15 am to 11:10 am
Sunday Room SSB 103, 10:15 am to 11:10 am

Abstract: Designed to be thin and light enough to take anywhere, iPad is the best way to experience the web, email, photos, and video. With a large, high- resolution display, an incredibly responsive Multi-Touch screen and an amazingly powerful Apple-designed chip, iPad isn't just the best device of its kind; it's a whole new kind of device. Discover iPad today!

Bio: As a Senior Systems Engineer for Apple, Dave Marra has conducted thousands of technology presentations, keynote addresses and workshops for schools, Mac and PC user groups, businesses and other professional organizations across the United States and Canada. Certified as both an Apple Certified Technical Coordinator and an Apple Certified Systems Administrator, his specialty areas include digital multimedia, internet technologies, accessibility and Mac/PC integration. For more information about Dave, please visit his web site at "www.marrathon.com".

Title: Apple and Accessibility - Making Technology Available to All Learners

Saturday Room SSB 103, 11:20 am to 12:15 pm

Abstract: Discover new ways Apple is making exciting technology available to all learners as part of its ongoing commitment to accessibility. For over 20 years, the Mac has shipped with dozens of accessibility features built in, at no additional cost, allowing it to be used right out of the box by people with disabilities. Now, with the innovative new iPod and iPad, Apple continues to set the standard by taking accessibility and learning to a whole new level.

Bio: See above.

Title: Introducing Mac OS X v.10.6 Snow Leopard!

Saturday Room SSB 103, 12:20 pm to 1:15 pm
Sunday Room SSB 103, 11:20 am to 12:15 pm

Abstract: The upgrade to Apple's most successful operating system ever, Snow Leopard builds upon a decade of Mac OS X innovation with hundreds of refinements, new core technologies and out-of-the-box support for Microsoft Exchange, all engineered upon a rock-solid, 64-bit UNIX foundation. Snow Leopard features a more responsive Finder; significantly faster built-in applications; a Dock with Exposé integration; Safari 4, the world's fastest web browser; QuickTime X, to easily view, record, trim and share video; and much, much more! Discover Mac OS X v.10.6 Snow Leopard today--the world's most advanced operating system, finely tuned.

Bio: See above.

Title: iLife '11 - Do more with photos, movies, and music on your Mac!

Saturday Room SSB 103, 1:30 pm to 2:25 pm
Sunday Room SSB 103, 1:30 pm to 2:25 pm

Abstract: Rediscover creative new ways to work with digital photos, movies, music and more with iLife! The brand new iLife '11 suite features exciting new updates to iPhoto, iMovie and GarageBand, along with iDVD and iWeb, all with features specifically designed for education. In the classroom, over the internet or as part of a dynamic

presentation or podcast, iLife offers exciting new digital content creation tools that are powerful, fun and easy to use. Explore iLife '11 today!

Bio: See above.

Title: iWork – Impressive Documents, Spreadsheets, and Presentations

Saturday Room SSB 103, 3:40 pm to 4:35 pm
Sunday Room SSB 103, 2:35 pm to 3:30 pm

Abstract: Discover how easy and fun word processing, spreadsheets and presentations can be with iWork. The new iWork productivity suite features major updates to Pages, Numbers and Keynote, and all are compatible with Microsoft Office. Also discover iWork.com, a new public beta, web-based service from Apple that lets you share your iWork documents, spreadsheets, and presentations with Macs and PCs, in a way that's both simple and smart.

Bio: See above.

Title: Welcome Windows Users – Mac/Windows Compatibility

Sunday Room SSB 103, 12:25 pm to 1:20 pm

Abstract: With the ability to run Windows, work with PC documents and connect to PC networks, today's Intel-based Mac truly offers the best of both worlds: a no-compromises solution to having one computer that can seamlessly run both Mac and Windows. Combine the Mac's ability to run Windows with its legendary ease-of-use, built-in Universal Access tools, built-in iLife software and the lowest cost-of-ownership in the industry and discover why many PC users are making the switch to the Mac.

Bio: See above

David McRitchie, Amateur Computer Group of New Jersey (ACGNJ)

Title: An Introduction to Firefox Features and Customization

Saturday Room SSB 129, 10:15 am to 11:10 am
Sunday Room SSB 131, 2:35 pm to 3:30 pm

Abstract: Firefox can be used as a simple web browser or expanded by using or adding additional features. Keyboard shortcuts are available in all browsers that greatly facilitate usage. They are pretty much the same across most browsers. There is a lot more available in Firefox such as keyword shortcuts that can greatly expand the utility of Firefox. For example the location bar autocomplete (awesomeBar) combines searching, within your own web bookmarks and history, for strings within titles, urls, and tags

together or separately. A lot of the real power of Firefox is in its extensions, and other customizations. Blocking ads and pop-ups is just the beginning of what you can do.

Bio: David McRitchie runs the ACGNJ's Firefox SIG once a month. He also maintains a Firefox website at "http://www.mvps.org/dmcritchie/firefox/firefox.htm".

Frank O'Brien, Infoage Science/History Learning Center

Title: NJ Science and History Resources

Saturday Room SSB 129, 11:20 am to 12:15 pm
Sunday Room SSB 129, 2:35 pm to 3:30 pm

Abstract: The museums found in major cities are known for their collections of unique and historic artifacts. From this impression, it is easy to overlook smaller, more specialized museums and collections that are equally exceptional. Often hidden in plain sight and only a short drive away, and they are a perfect solution for rainy days or school trips. Imagine seeing artifacts that went to the moon, the beginnings of color television or learning about "the crime of the century"! Attendees will be introduced to 6-8 small museums and collections that are within an hour drive of TCF.

Bio: Frank O'Brien is an author and space historian, and often lectures on spaceflight and computer architecture. He has volunteered and created exhibits for the Cradle of Aviation in Long Island, NY, and the Infoage Science and History Learning Center in Wall, NJ.

Bala Prasanna, IBM and IEEE Region 1

Title: Essentials of Effective Communications in Workplace - Beyond Basics

Sunday Room SSB 131, 12:25 pm to 1:20 pm

Abstract: Talking up - Have you noticed the difference in effectiveness when you ask your colleague or a direct report - "Can you do this by Friday?" vs. "Please get this done by Fri", or "I will try to do this" vs. "I will do this". If you are a mentor, are you likely to be more effective when you say, "Have you considered this for a solution", rather than, "You should do it this way" approach. These and many other examples will be discussed to get ourselves more effective and productive.

Bio: Bala Prasanna works as program manager for IBM. Prior to that, he held various technical and management positions in AT&T/Bell Labs for over 22 years. He is also an IEEE senior member and an active IEEE volunteer as a national speaker and Region 1 Treasurer. His mantra to his audience has always been, go after excellence in what you do, and success will be a byproduct.

Michael Redlich, Amateur Computer Group of New Jersey (ACGNJ)

Title: Introduction to Object-Oriented Programming and Design Principles

Saturday Room SSB 230, 11:20 am to 12:15 pm

Abstract: Object-Oriented Programming (OOP) is a programming paradigm that models real-world objects. The most well-known and widely-used OOP languages are C++ and Java, but some languages, such as Simula-67, were around much earlier. The advantages of OOP over structured programming include modularity and code re-use. As OOP has evolved over the years, things like design patterns and design principles have guided developers to write applications that are more adaptable to modification. This presentation will introduce OOP, its basic attributes (encapsulation, abstraction, inheritance, and polymorphism), the class mechanism, and some design principles that have led to the development of design patterns. Example C++ and Java source code will be reviewed to demonstrate the features of OOP and design principles.

Bio: Michael Redlich is a Senior Research Technician at a petrochemical research organization in New Jersey with experience in developing custom web and scientific laboratory applications. He currently serves on the ACGNJ Board of Directors as Past-President and has facilitated the monthly ACGNJ Java Users Group since 2001. Mike's technical experience includes object-oriented design and analysis, relational database design and development, computer security, C/C++, Java, and other programming/scripting languages. He has conducted seminars at TCF since 1998 and has co-authored articles with Barry Burd for Java Boutique. Mike has a BS in Computer Science from Rutgers University.

Title: Hands-On Java Programming Workshop (part 1)

Saturday Room SSB 129, 1:30 pm to 2:25 pm

Abstract: This new hands-on workshop will provide an introduction to the Java programming language plus review some intermediate concepts. Some Java keywords will be reviewed before introducing the Java class mechanism. You will have the opportunity to build a small, working Java application to demonstrate how the attributes of OOP are utilized. You will then build upon your application as each of the intermediate features (JavaBeans, exception handling, Java Generics, and Java Database Connectivity (JDBC)) is reviewed. If time allows, there will also be a brief introduction to the Java 2 Collections. [Prerequisite: working knowledge of a structured programming language such as C, FORTRAN, or Pascal].

Bio: See above.

Title: Hands-On Java Programming Workshop (part 2)

Saturday Room SSB 129, 3:35 pm to 4:30 pm

Abstract: This new hands-on workshop will provide an introduction to the Java programming language plus review some intermediate concepts. Some Java keywords will be reviewed before introducing the Java class mechanism. You will have the opportunity to build a small, working Java application to demonstrate how the attributes of OOP are utilized. You will then build upon your application as each of the intermediate features (JavaBeans, exception handling, Java Generics, and Java Database Connectivity (JDBC)) is reviewed. If time allows, there will also be a brief introduction to the Java 2 Collections. [Prerequisite: working knowledge of a structured programming language such as C, FORTRAN, or Pascal].

Bio: See above.

Title: Introduction to C++

Sunday Room SSB 102, 10:15 am to 11:10 am

Abstract: This seminar is an introduction to the C++ programming language. C++ is an object-oriented programming (OOP) language created by Bjarne Stroustrup at AT&T Labs. Since knowledge of OOP is vital in the development of robust applications, the OOP paradigm will be introduced. Advantages of OOP over structured programming and the four attributes of OOP (data encapsulation, data abstraction, inheritance, and polymorphism) will be discussed as well. Some C++ keywords will be reviewed before introducing the C++ class mechanism. A small, working C++ example will be reviewed to demonstrate how the attributes of OOP are utilized within C++ classes. [Prerequisite: working knowledge of a structured programming language such as C, FORTRAN, or Pascal].

Bio: See above.

Title: C++ Advanced Features

Sunday Room SSB 102, 11:20 am to 12:15 pm

Abstract: This in-depth seminar will cover some of the advanced features of C++. Four main topics will be presented: overloaded operators, templates, exception handling, and namespaces. Each of these topics will be individually discussed and a sample code will be reviewed to demonstrate how each feature is implemented. There will also be a brief introduction to the Standard Template Library. [Prerequisite: working knowledge of fundamental C++].

Bio: See above.

Maria Rivera, Independent learning consultant

Title: Rapid e-Learning Development with Adobe Captivate 5.0

Saturday Room SSB 105, 10:15 am to 11:20 am

Abstract: Would you like to learn how to quickly create an engaging e-Learning class that includes simulations, quizzes, audio narrations, animations, and video clips? Please join us for this fun session and learn a few e-Learning development secrets too!

Bio: Maria T. Rivera (M.A.Ed, Adult Education & Training) has over Ten years of Senior Account Management, Sales Training, Technology Training, Web Development, New Media, and Training & Development professional experience in Fortune 500 companies and Educational Institutions including Medco, Johnson & Johnson, Johnson & Johnson Pharmaceutical Research & Development, LLC, AT&T, CALC, Chubb Computer Services, Prudential Douglas Elliman, Long Island University, Burgdorff Realtors-ERA/Realogy, and Dover Business College. She is also a NYS/NJ Certified Instructor.

Orlando Rivera, DigitalSummit.TV

Title: TransMedia for elearning, filmmaking, and selling your stories

Saturday Room SSB 130, 11:30 am to 12:25 pm

Abstract: Orlando Rivera is working on a 3D feature TransMedia production and how its connects to filmmaking and eLearning. We will look at what has worked for us and what has not. We will talk about what may be coming in the next wave of TransMedia projects. In general TransMedia is an emerging paradigm (the concept is not new just the name) that allows overarching narrative themes to engage and immerse an audience. It allows clients, fans, or audience to get involve with TransMedia project via online games on smartphones as iPhone & on the iPad, read graphic novels, comics, and interactive books, watch a Web episodic/series, and communicate on other social media platforms and portable digital devices in a way that makes it all seem part of the same universe.

Bio: Orlando Rivera is a technologist, 3D Animation Filmmaker, Visual Effects Supervisor for feature film and shorts like "One Soul" (Terror Film Festival Nominee for best visual effects). He has 20 plus years experience in new media and interactive development. He is currently developing a 3D stereoscopic feature animation. Clients have included QVC.com, AT&T Labs, and Sony/BMG. He also teaches digital filmmaking and interactive development. His web sites are www.FranknSon.com, www.Timeview.TV and DigitalSummit.TV.

Rick Rosen (K1DS) and Michael Davis (KB1JEY), "PACKRATS" Mt Airy VHF Radio Club

Title: Introduction to VHF

Sunday Room SSB 223, 1:30 pm to 3:30 pm

Abstract: This instructional workshop will outline the basics of VHF communication and propagation, available and affordable equipment and antennas, and station assembly. It is designed to encourage VHF communication on bands 50 MHz and above that are more than repeater communications. We will review commercial transceivers, transverters, amplifiers and receive preamplifiers as well as coax and connectors. There will also be an introduction to VHF contesting.

Bio: Rick, K1DS has been a licensed ham for 51 years and has been involved in every phase of the hobby. He is active on all bands through 24GHz plus LASER in his rover van. Michael, KB1JEY has been increasing his VHF knowledge and operation through building a VHF, UHF and microwave station at his home. Both are active members of the Mt Airy VHF Radio Club -- "PACKRATS."

Robert Schroeder (N2HX), NJ Office of Emergency Management

Title: NJ RACES Symposium

Sunday Room SSB 225, 1:30 pm to 2:25 pm

Abstract: The NJ Office of Emergency Management traditionally conducts an annual RACES/ARES symposium at the State Emergency Operations Center in West Trenton. Now that the NJ ARRL Convention has been created, it makes more sense to embed this symposium into the ARRL convention so that it can be accessible to other interested hams. The Radio Amateur Civil Emergency Service is established under FCC Part 97. This symposium is a forum for county and VOAD liaison agencies to discuss *emcomm* issues, exchange ideas, and learn about state communications initiatives.

Bio: Bob Schroeder, N2HX, is the NJ Communications and Warning Officer and has been employed by the NJ Office of Emergency Management for 28 years. He has been a licensed ham since 1969. He is an electrical engineer with an extensive background in land-mobile communications, electronic surveillance, and electromagnetic pulse (EMP). Bob received the Bill Orr technical writing award in 2009 for his article on EMP protection.

David Soll (KC2YJI), Omicron Consulting

Title: A Brief Tour of Windows 7 and Office 2010 in the Cloud

Saturday Room SSB 129, 12:25 pm to 1:20 pm
Sunday Room SSB 102, 12:25 pm to 1:20 pm

Abstract: David Soll will present a brief tour of Microsoft's latest desktop operating system, Windows 7, as well as the soon to be released version of Office, Office 2010. Both Windows 7 and Office 2010 have many exciting new features. These features will be highlighted as well as demonstrated. This talk is designed to be highly interactive, inviting questions and comments from the audience.

Bio: David Soll is the Vice President and the Chief Technology Officer for Omicron Consulting in Philadelphia. He is also the Chairman of the Princeton Chapter of the IEEE Computer Society as well as the Chairman of the TCF Professional IT Conference. David has been working with computer technologies for over 25 years and holds a BS in Electrical Engineering from Drexel University. He has worked in computer programming, network engineering, systems analysis, and system architecture and design, and is still active in the most technical aspects of computing.

Mark Sproul (KB2ICI), Fubar Labs Maker space

Title: Arduino Developers Workshop

Saturday Room SSB 223, 10:15 am to 3:25 pm

Abstract: Arduino (www.arduino.cc) is an open source electronics prototyping platform that is taking the electronic hobbyists and artists world by storm. It is an easy, low-cost, way to learn to design and create interactive objects or environments. Tens of thousands of hobbyist have discovered this incredible, and educational hardware, and software development platform. This workshop is a day long Arduino tutorial and users meeting. We will start out with an intro to Arduino, followed by a beginners' Arduino hands on class. We then have an open *hack* period and finally have a developers' round table. Plans also include a presentation on a Makerbot.

Bio: Mark Sproul joined ACGNJ in 1977. He has a BS in Electrical/Computer engineering from Rutgers School of Engineering. He is an author of many ham radio programs and a leader in Arduino development.

Abby Stokes, Author

Title: "10 Tips for Teaching Silver Surfers"

Saturday Room SSB 105, 3:40 pm to 4:35 pm

Abstract: Insights into what contributes to silver surfers becoming the largest growing and most faithful demographic online will be provided as well as a discussion as to how one can tap into this important trend to draw greater numbers to a computer club, senior center, or a website including usability issues.

Bio: Abby Stokes, author of *"Is This Thing On?" A Computer Handbook for Late Bloomers, Technophobes, and the Kicking and Screaming*, has single-handedly demystified computers for over 135,000 people over the past 17 years. Abby has taught courses in basic computing at Cooper Union and NYU and computer skills to private and corporate clients. She has lectured on the topic across the country. She is confident that everyone can master the computer and the Internet.

Mark Streitman, Science Design, LLC

Title: Linux for the Home, a Primer

Saturday Room SSB 230, 3:40 pm to 4:35 pm

Abstract: Old computer, New computer, Laptop and Game machine; what do they have in common? They clutter our houses. Some are used, some are obsolete and some sit in the basement. But what if all of your machines could be turned into something useful? Linux! It runs on PCs, but also on Mac, Wii, PS 2 and 3, Gameboy, Xbox, GameCube and just about any other computer like device you're likely to own. You can not only turn them into standard desktops or servers, but Arcade machines, Multimedia systems, digital picture frames or lots of other single purpose machines. In this workshop, we will explore everything from setup and hardware issues, maintenance, upgrades and administration. Reuse that old machine and turn it into a useful appliance for your home.

Bio: Mark Streitman has been a software engineer and programmer for over 25 years. He designs and programs Linux system, microcontroller based boards, does R&D and created the world's first Portable Foucault Pendulum. He has built several Home Theater PCs and loves to tinker around with Ubuntu Linux systems. He has also achieved an advanced level in Toastmasters, is President of the New Jersey Society for Amateur Scientists and is an excellent cook and chess player.